

DIAGRAMMES

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CHRISTIAN LAIR
Atlas des Figures

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DIAGRAMMES

VOLUMES 59 + 60, FASCICULE 2, 2008

SUR
CERTAINES SOUS-CATEGORIES NON PLEINES
DES
CATEGORIES DE MODELES

Fascicule 2 :
Atlas des Figures

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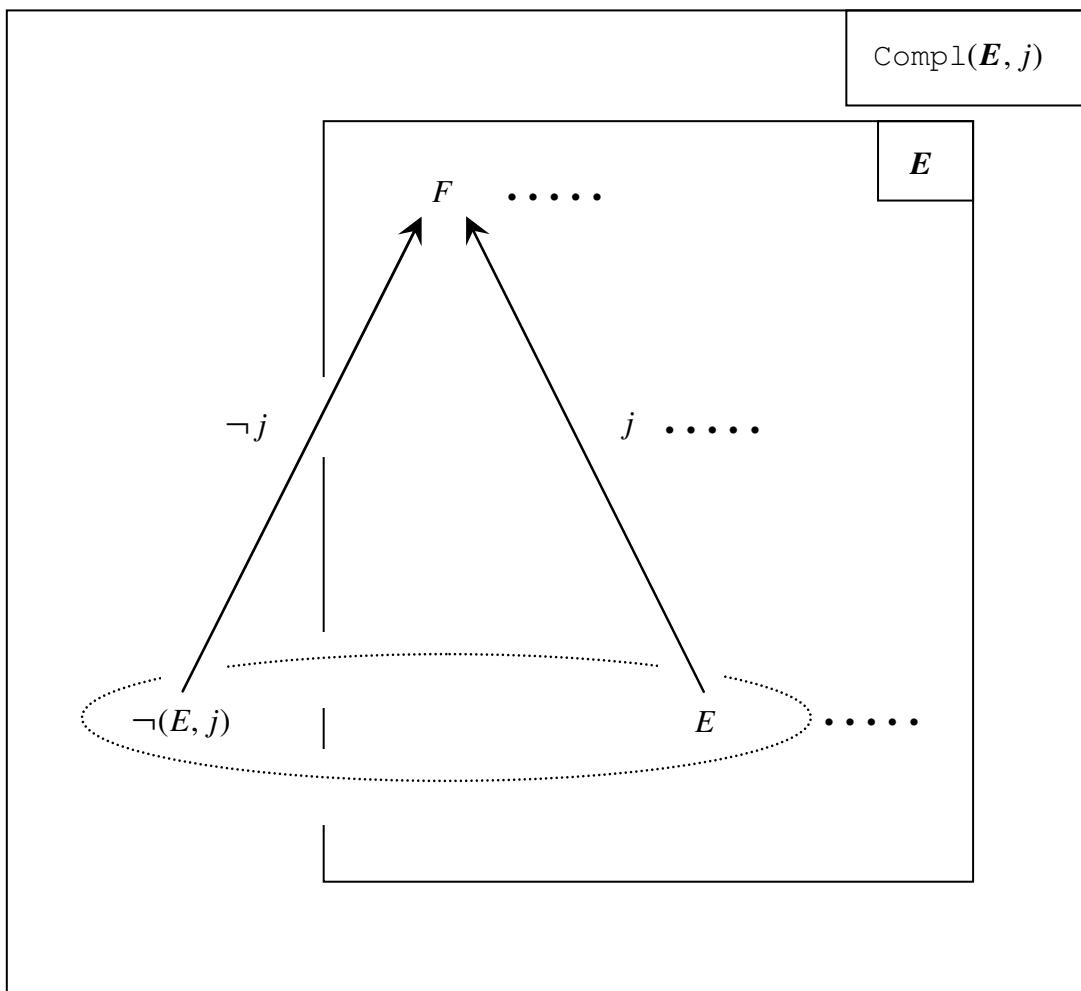
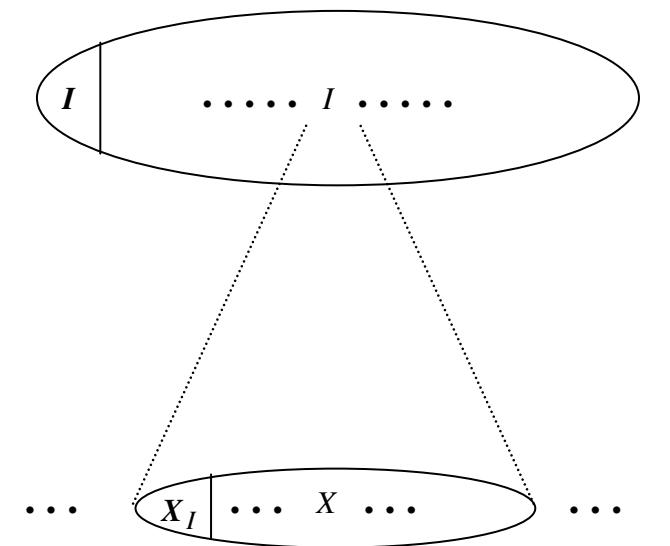
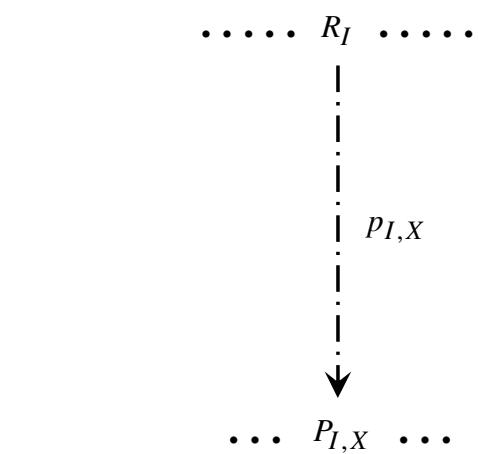


Figure 1



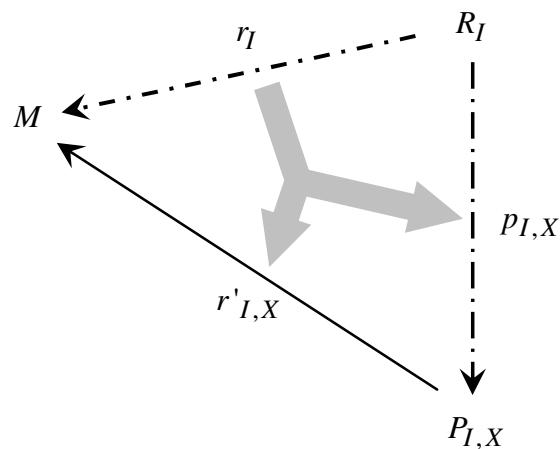
M



$\dashrightarrow \in \text{Fl}(M)$

Figure 2

$\boxed{M, M'}$



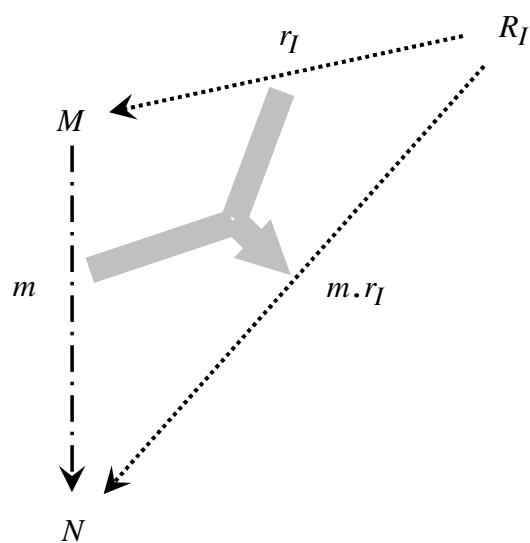
$\dashrightarrow \in \text{Fl}(M)$
 $\longrightarrow \in \text{Fl}(M')$

Résol. 1

$$\begin{aligned}
 \forall M \in \text{Ob}(M') = \text{Ob}(M) \quad \forall I \in \mathcal{I} \quad \forall r_I : R_I \rightarrow M \in \text{Fl}(M) \\
 \exists X \in X_I \quad \exists r'_{I,X} : P_{I,X} \rightarrow M \in \text{Fl}(M') \\
 r'_{I,X} \cdot p_{I,X} = r_I
 \end{aligned}$$

Figure 3

$\boxed{\mathbf{M}, \mathbf{M}'}$



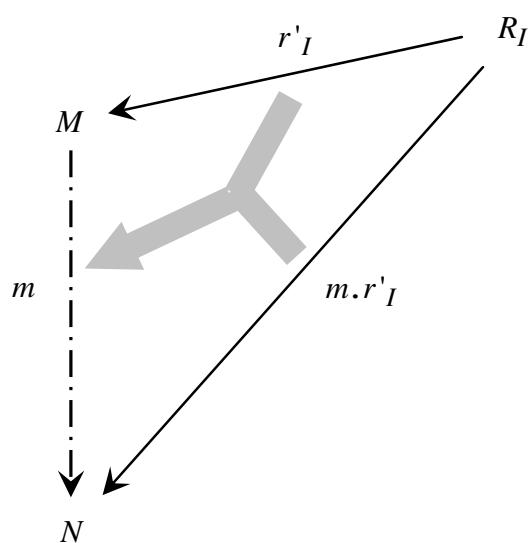
$\dashv \rightarrow \in \text{Fl}(\mathbf{M})$
 $\cdots \rightarrow \notin \text{Fl}(\mathbf{M}')$

Résol. 2

$\forall M \in \text{Ob}(\mathbf{M}) \quad \forall N \in \text{Ob}(\mathbf{M}) \quad \forall m : M \rightarrow N \in \text{Fl}(\mathbf{M})$
 $\forall I \in \mathbf{I} \quad \forall r_I : R_I \rightarrow M \in \text{Fl}(\mathbf{M})$
 $r_I : R_I \rightarrow M \notin \text{Fl}(\mathbf{M}') \Rightarrow m \circ r_I \notin \text{Fl}(\mathbf{M}')$

Figure 4

$\boxed{\mathbf{M}, \mathbf{M}'}$



$\dashv \rightarrow \in \text{Fl}(\mathbf{M})$
 $\dashv \rightarrow \in \text{Fl}(\mathbf{M}')$

Résol. 3

$\forall M \in \text{Ob}(\mathbf{M}) \quad \forall N \in \text{Ob}(\mathbf{M}) \quad \forall m : M \rightarrow N \in \text{Fl}(\mathbf{M})$
 $[\forall I \in \mathbf{I} \quad \forall r'_I : R_I \rightarrow M \in \text{Fl}(\mathbf{M}') \quad m . r'_I : R_I \rightarrow N \in \text{Fl}(\mathbf{M}')] \Rightarrow [m : M \rightarrow N \in \text{Fl}(\mathbf{M}')]$

Figure 5

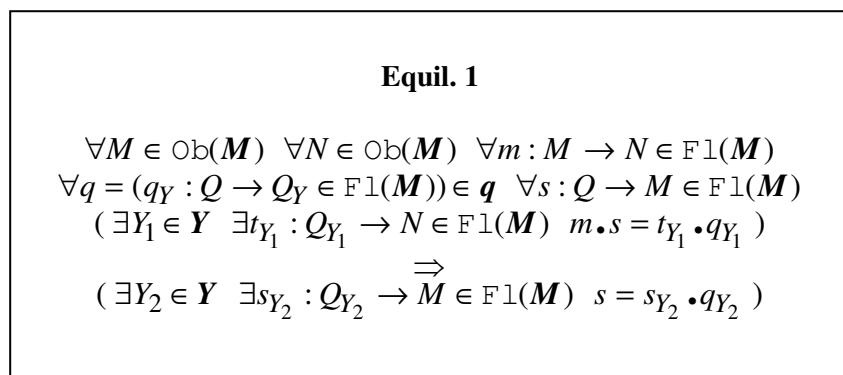
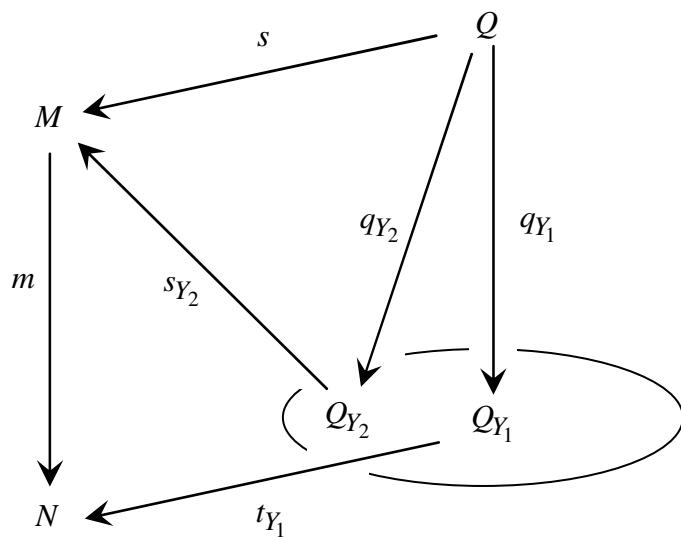
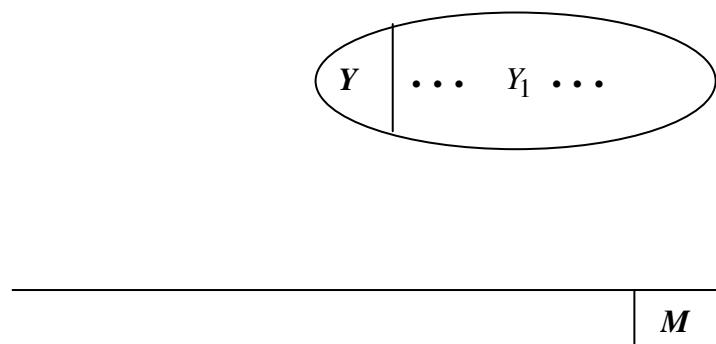


Figure 6

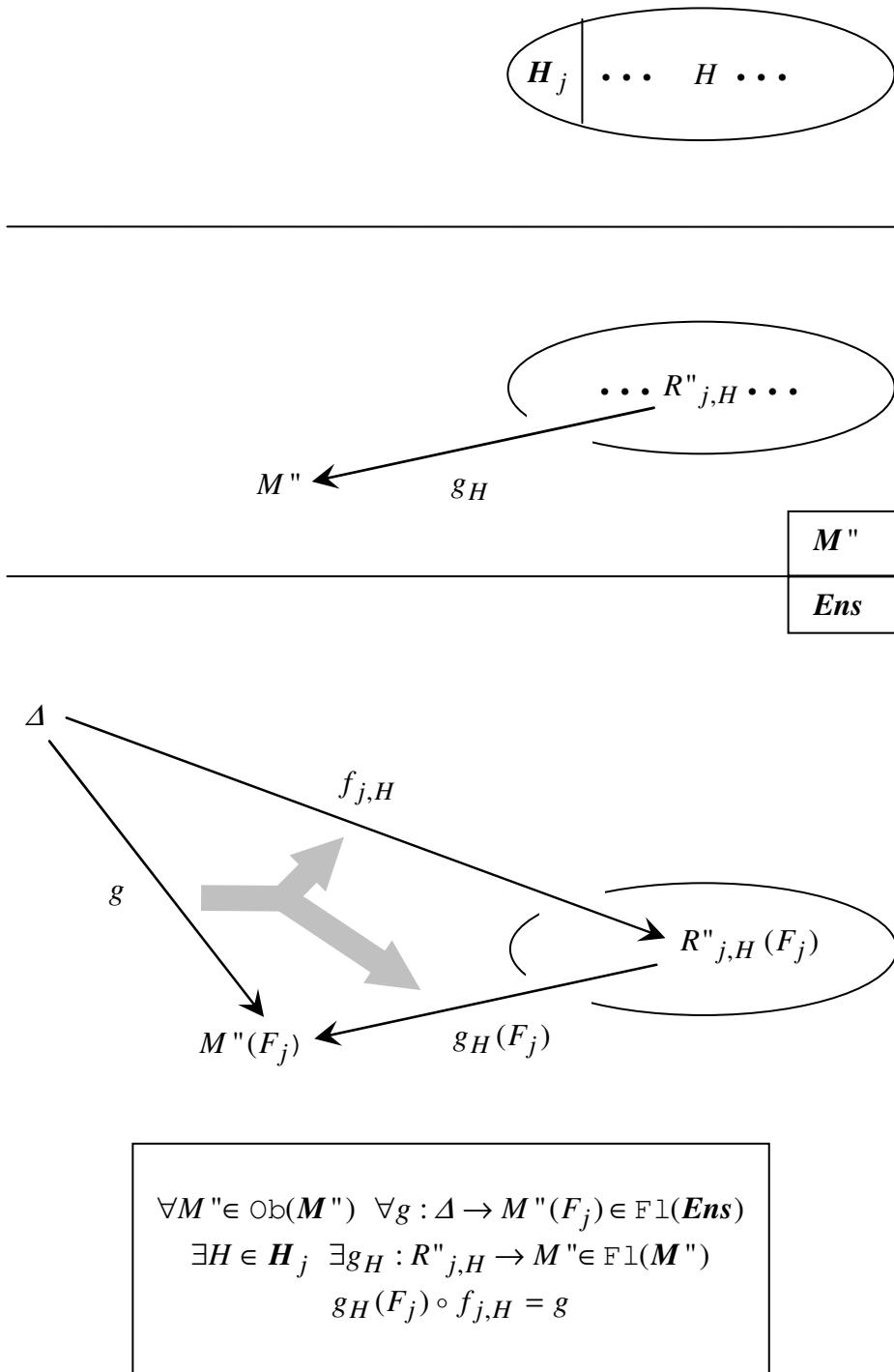


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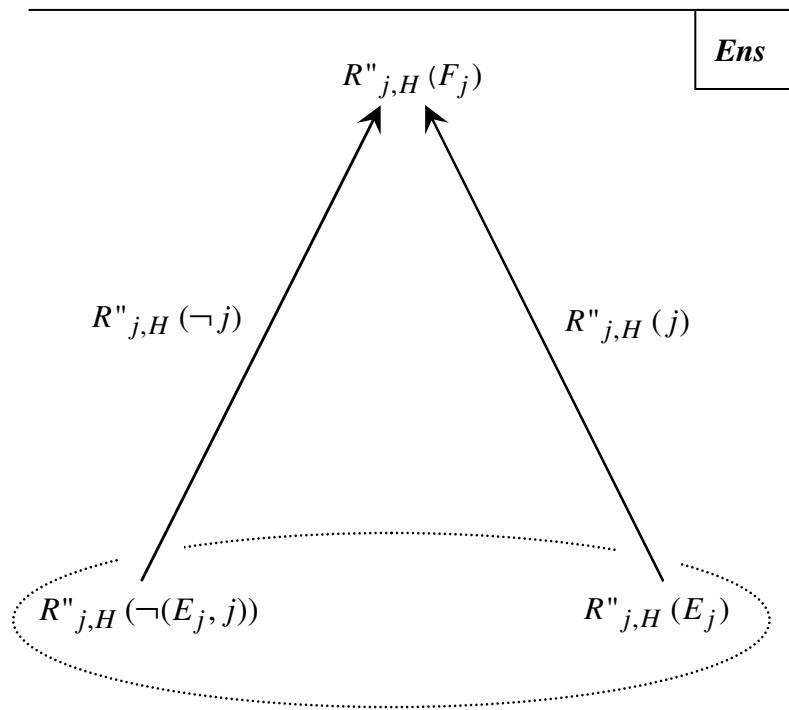


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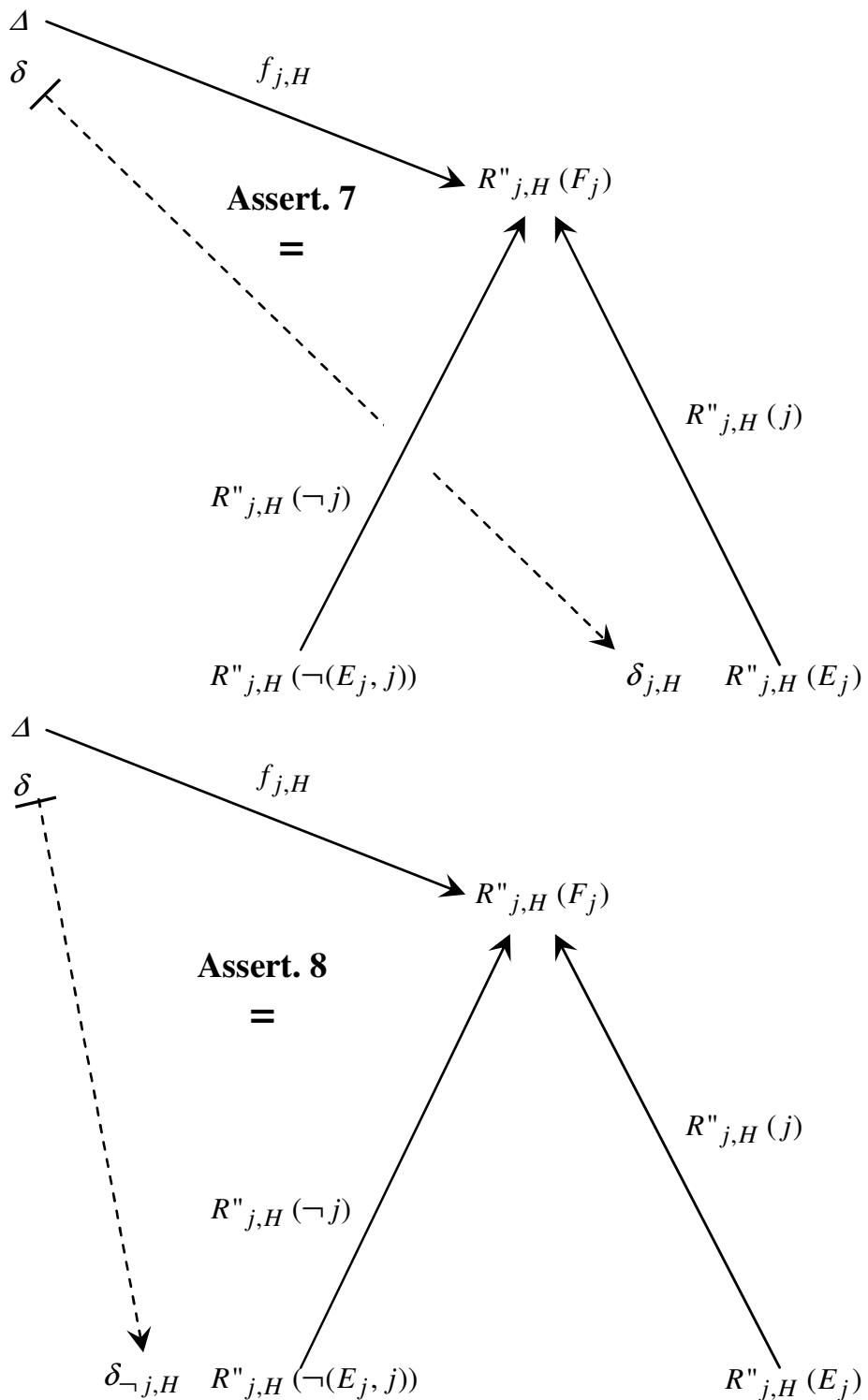
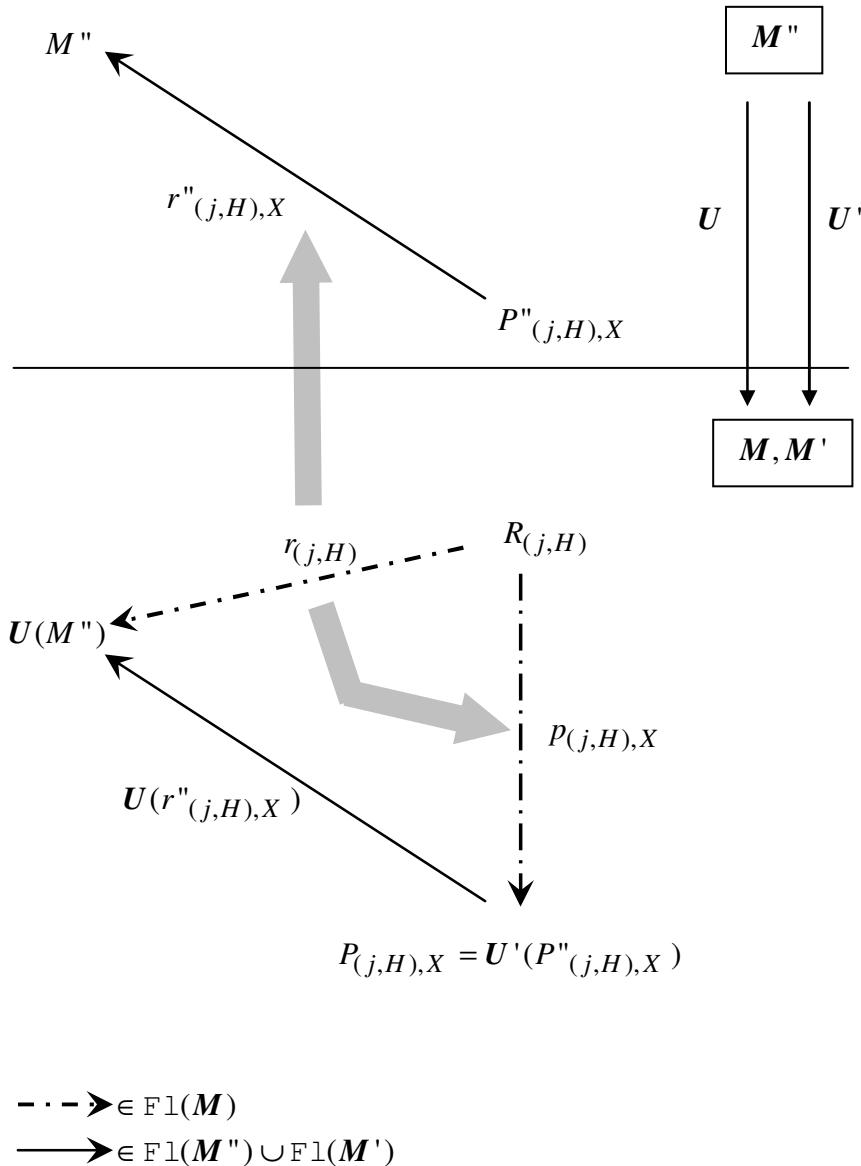


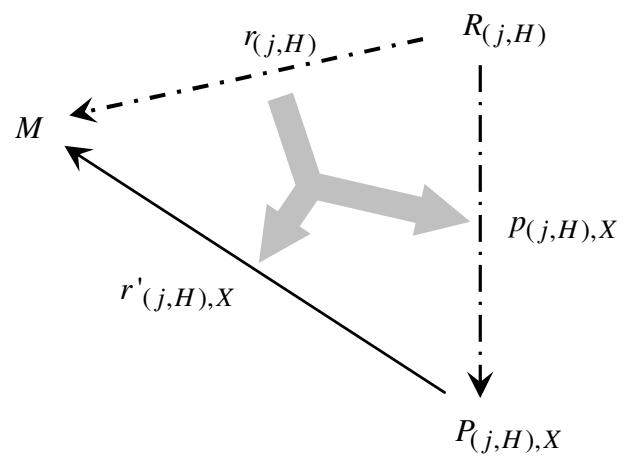
Figure 9



$\forall M'' \in \text{Ob}(\mathbf{M}'') \quad \forall (j, H) \in I \quad \forall r_{(j,H)} : R_{(j,H)} \rightarrow U(M'') \in \text{Fl}(\mathbf{M})$ $\exists X \in X_{(j,H)} \quad \exists r''_{(j,H),X} : P''_{(j,H),X} \rightarrow M'' \in \text{Fl}(\mathbf{M}'')$ $U(r''_{(j,H),X}) \cdot p_{(j,H),X} = r_{(j,H)}$
--

Figure 10

$\boxed{\mathbf{M}, \mathbf{M}'}$



$$\begin{aligned}
 \forall M \in \text{Ob}(\mathbf{M}') = \text{Ob}(\mathbf{M}) \quad \forall (j, H) \in I \quad \forall r_{(j,H)} : R_{(j,H)} \rightarrow M \in \text{Fl}(\mathbf{M}) \\
 \exists X \in X_{(j,H)} \quad \exists r'_{(j,H),X} : P_{(j,H),X} \rightarrow M \in \text{Fl}(\mathbf{M}'') \\
 r'_{(j,H),X} \cdot p_{(j,H),X} = r_{(j,H)}
 \end{aligned}$$

Figure 11

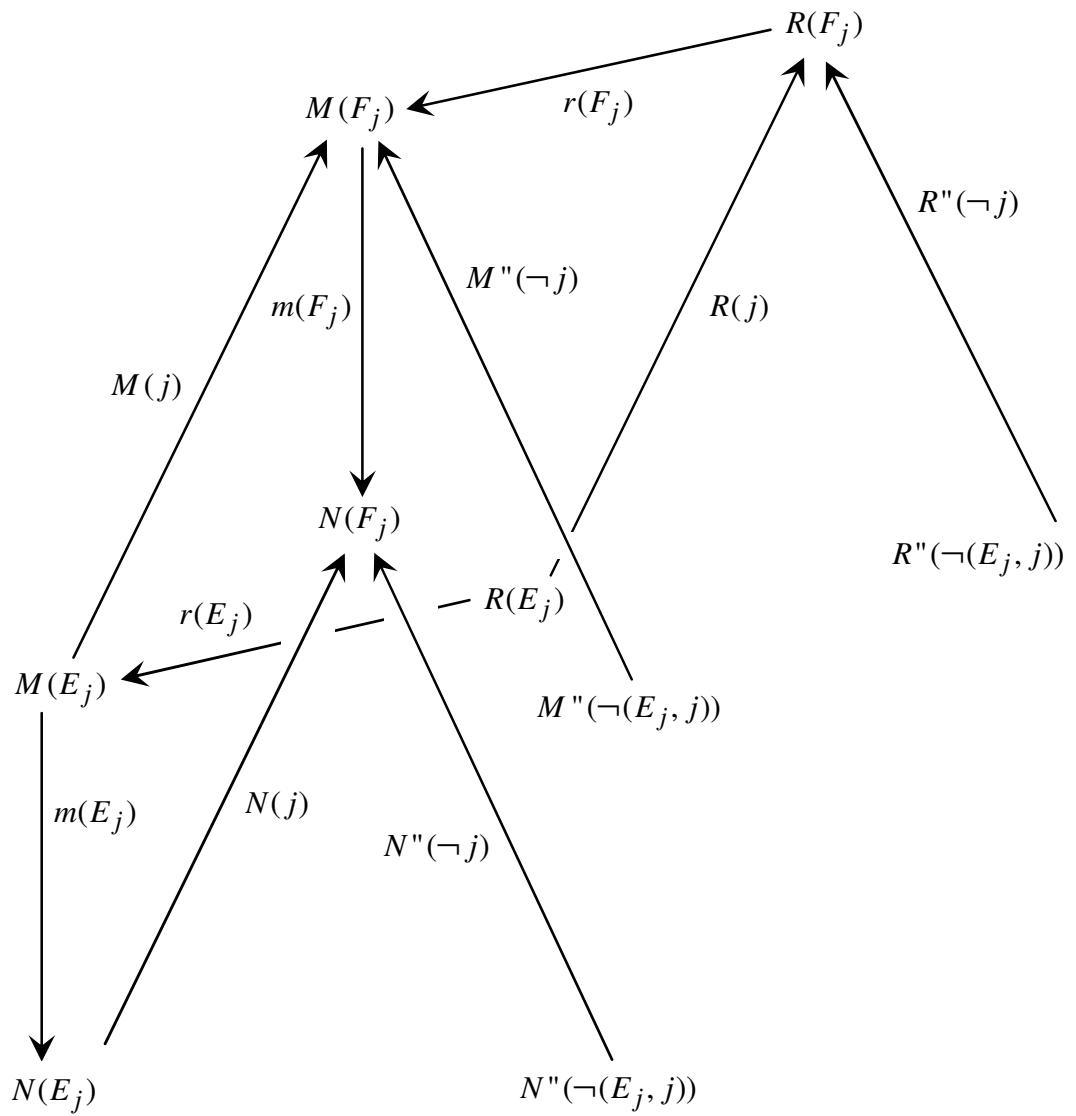


Figure 12

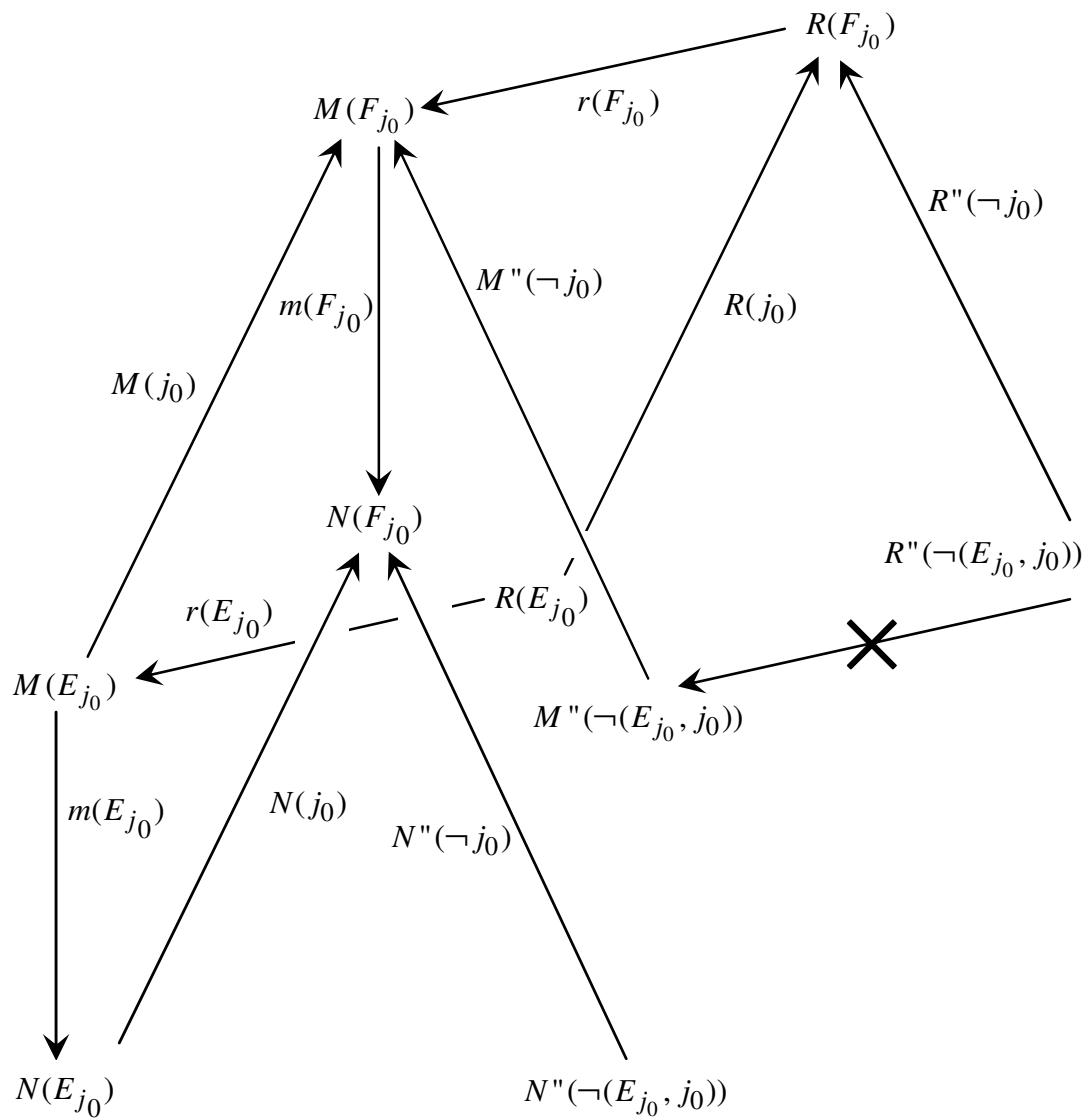


Figure 13

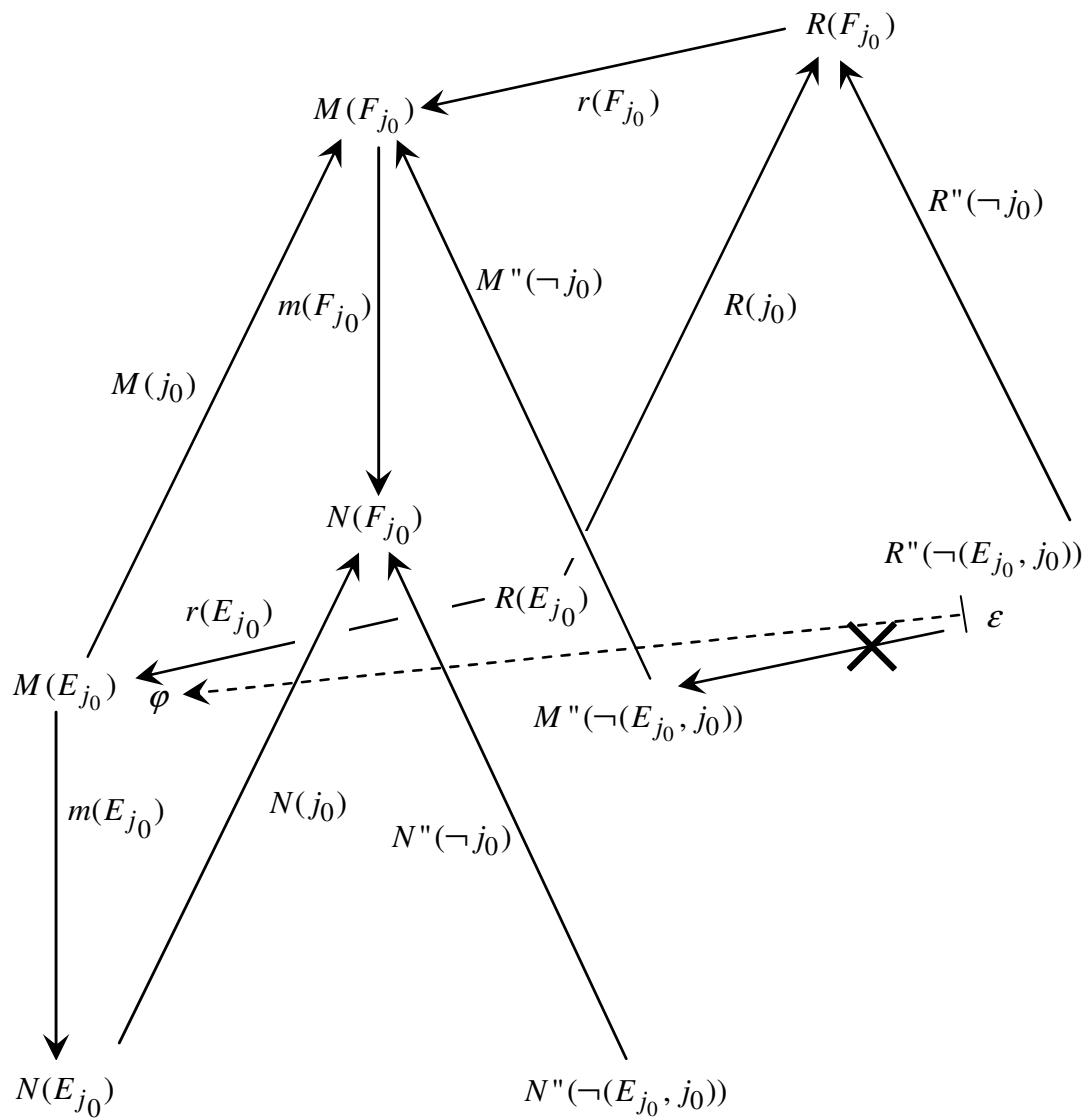


Figure 14

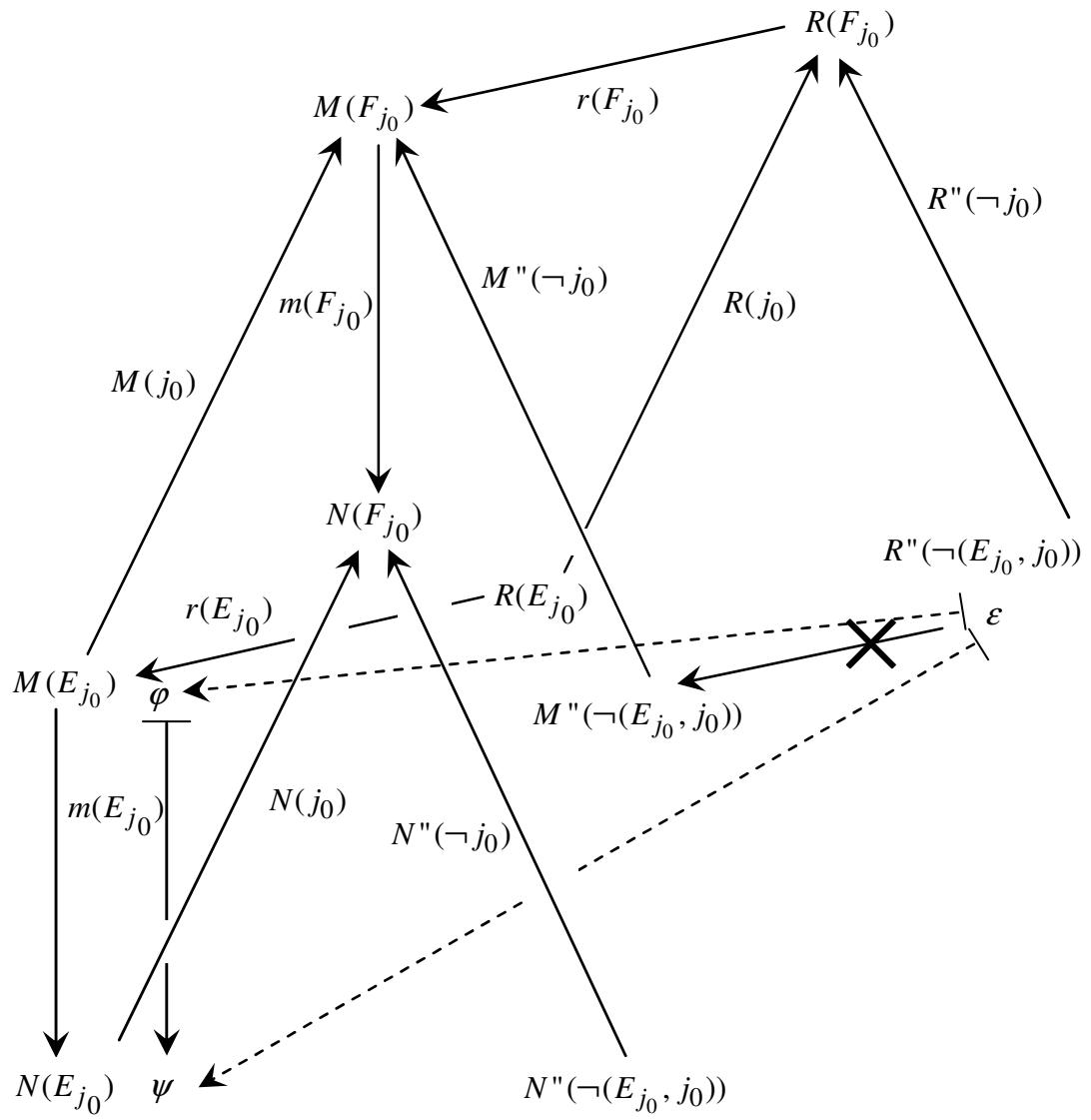


Figure 15

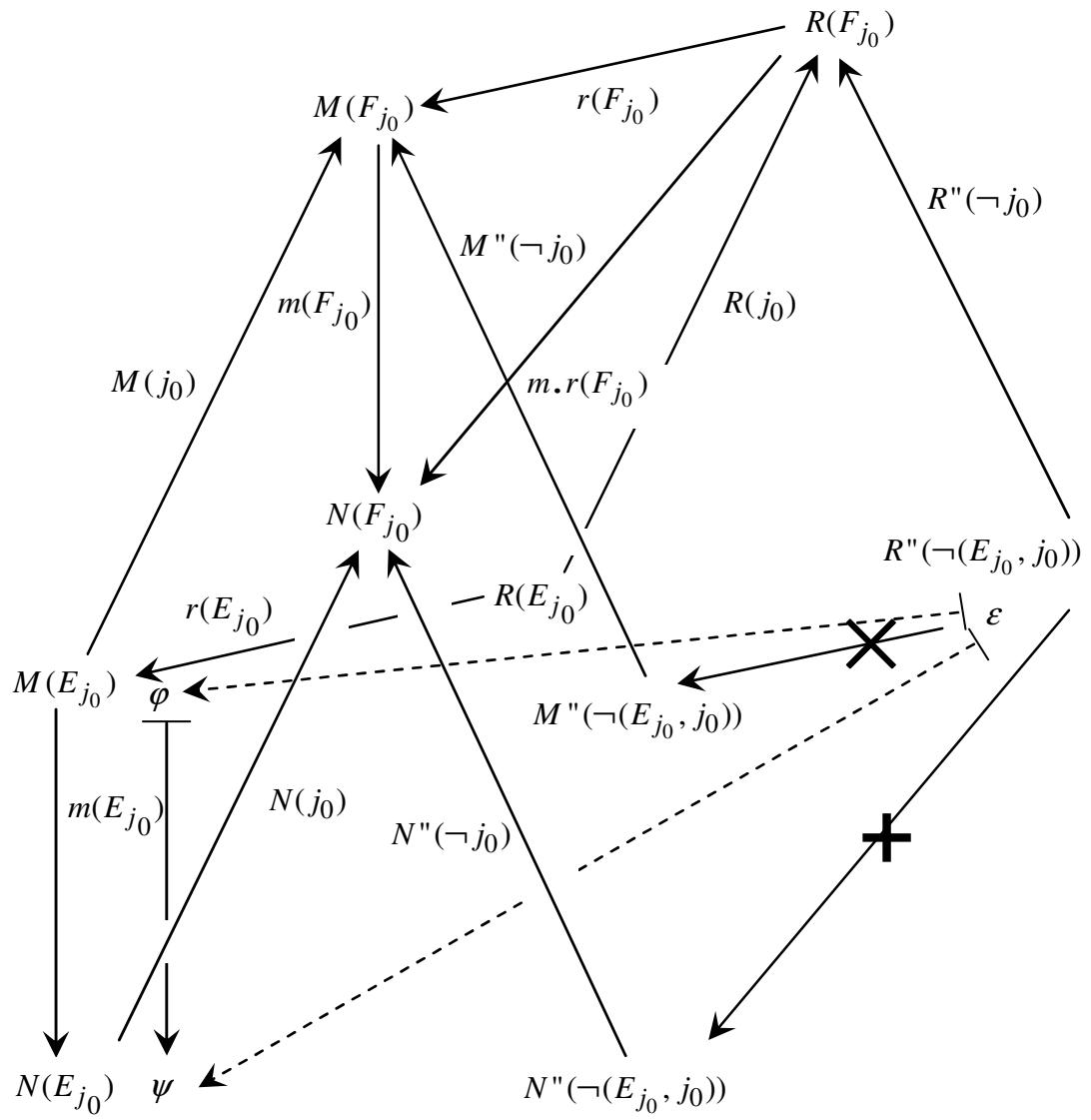


Figure 16

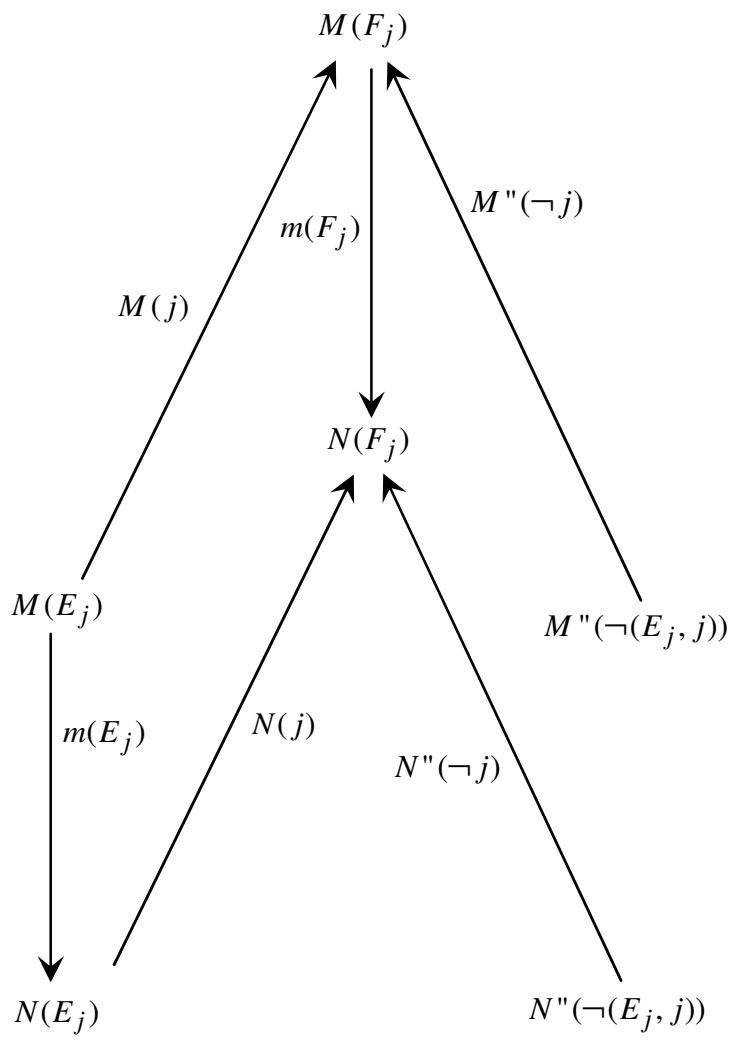


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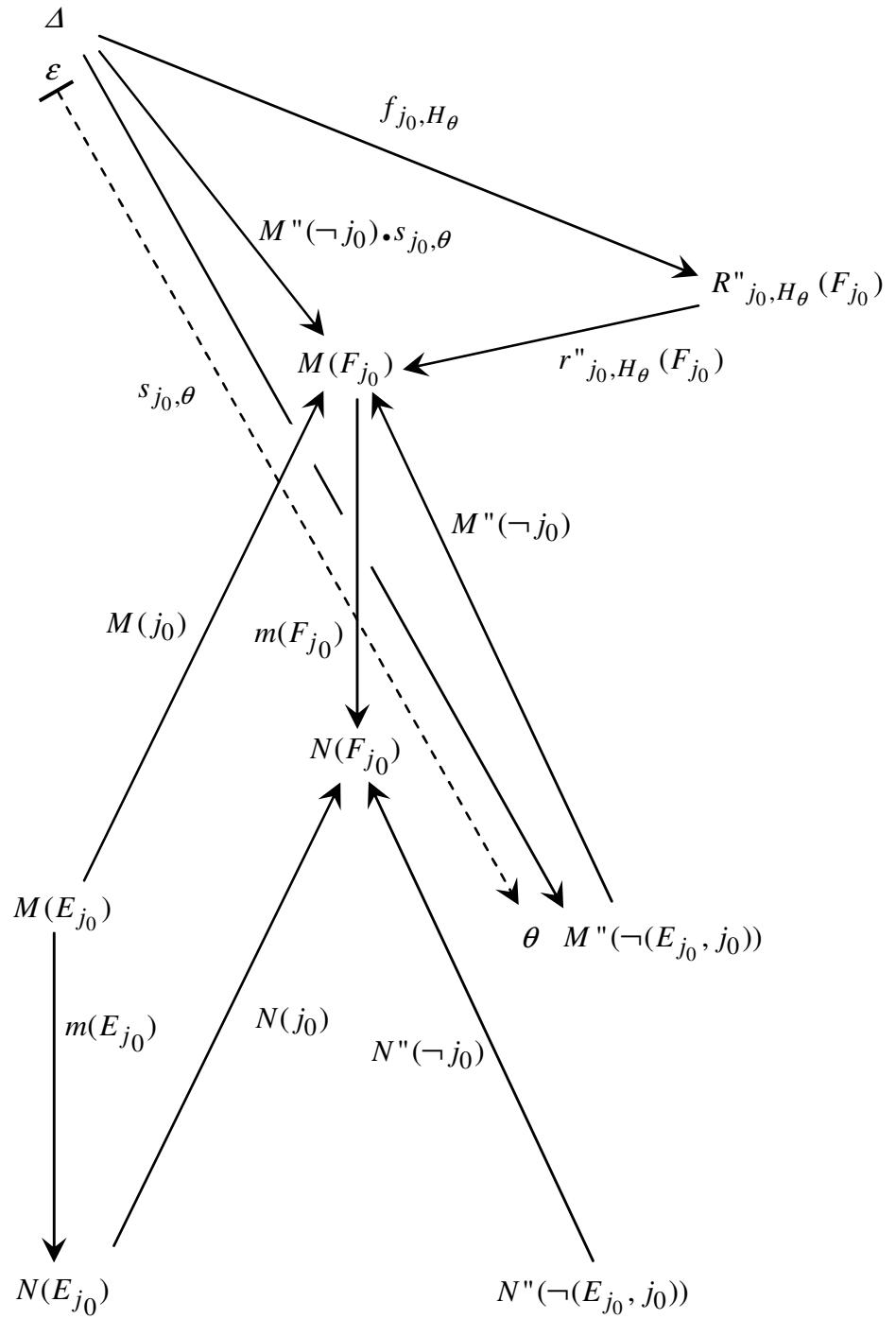


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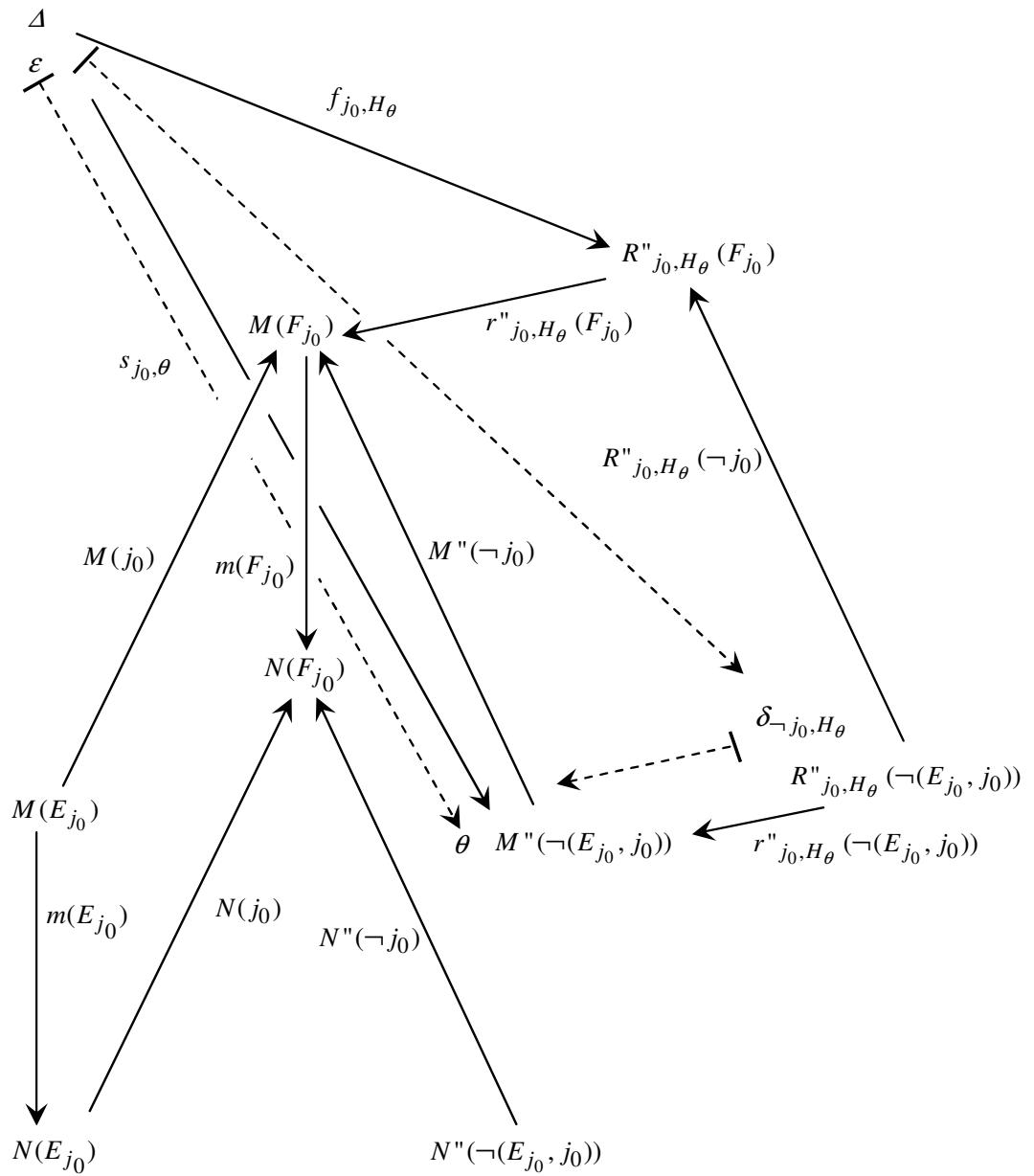


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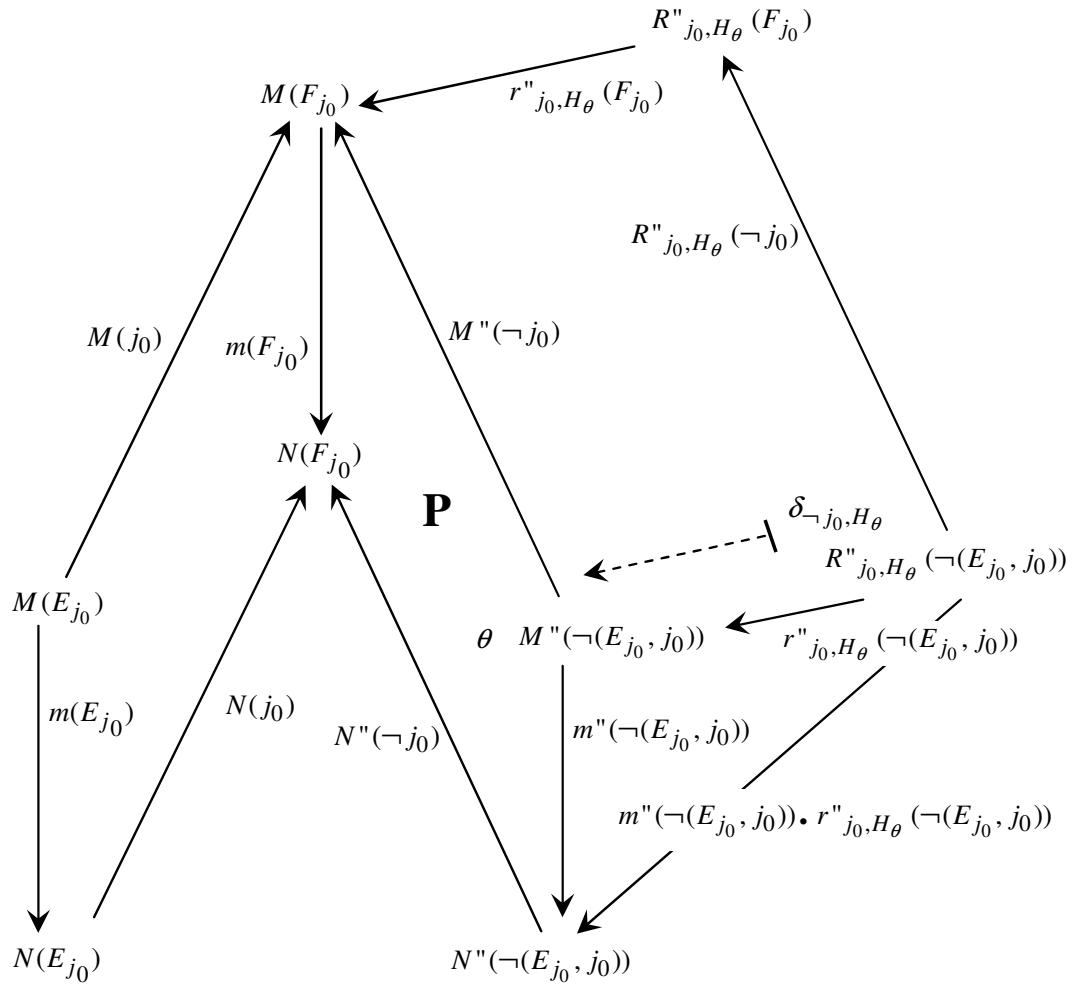
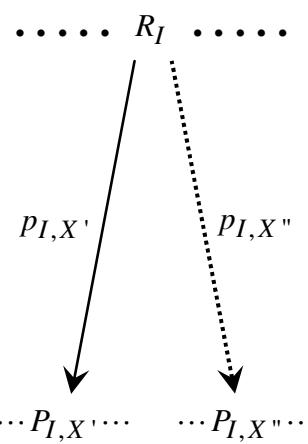
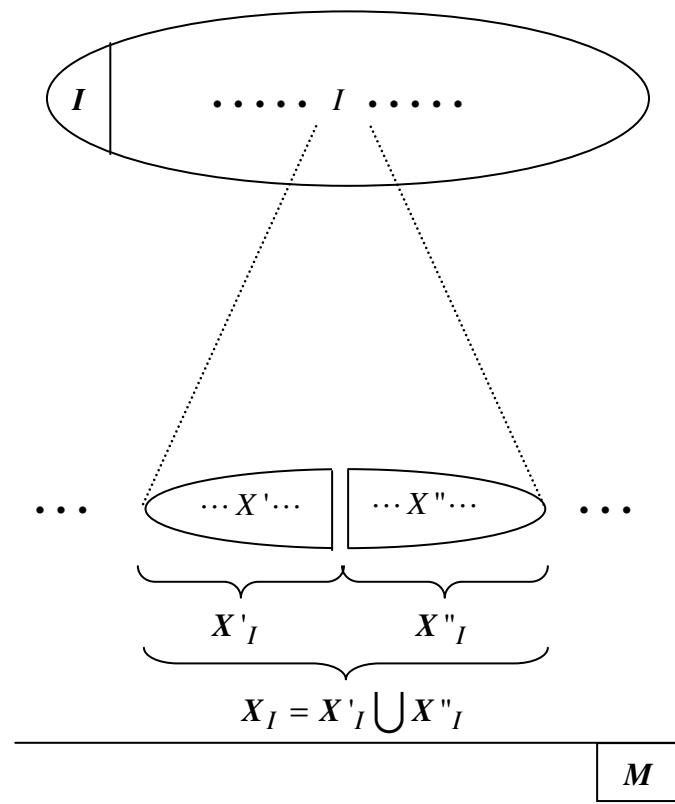
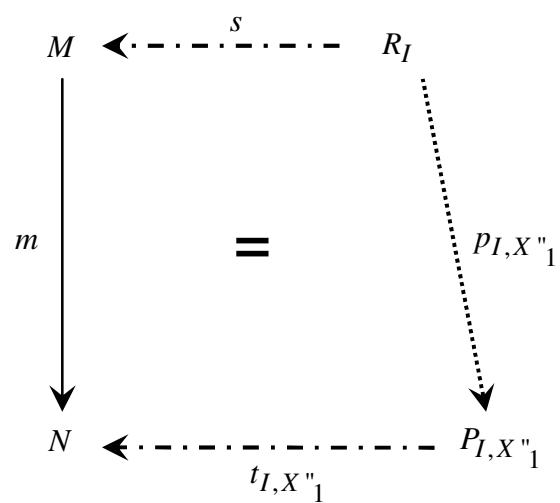


Figure 20



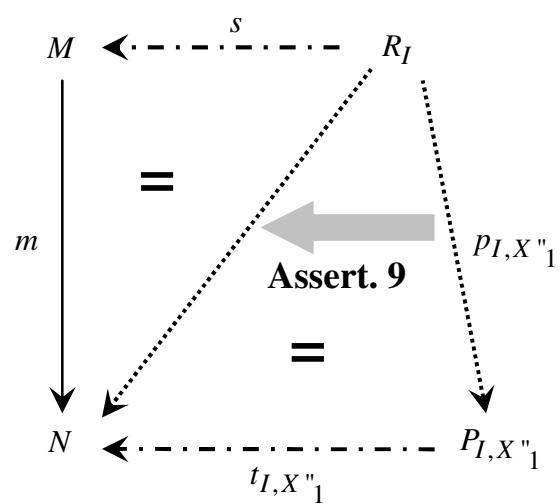
$\longrightarrow \in \text{Fl}(M')$
 $\cdots \cdots \rightarrow \notin \text{Fl}(M')$

Figure 21



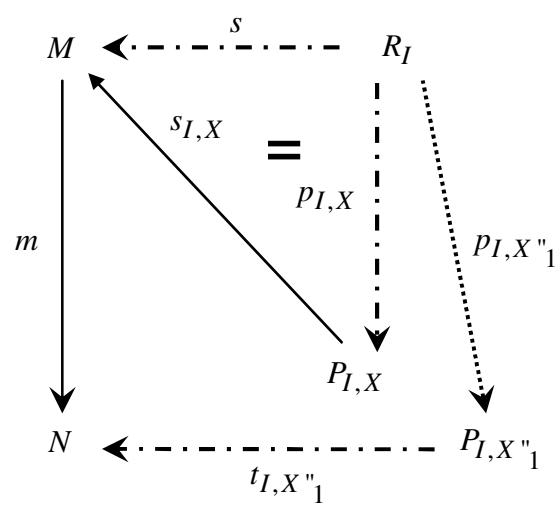
—→ $\in \text{Fl}(M')$
 → $\notin \text{Fl}(M')$
 - - - → $\in \text{Fl}(M)$

Figure 22



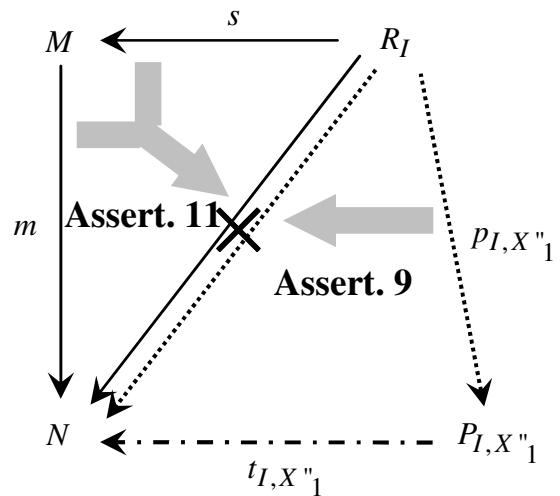
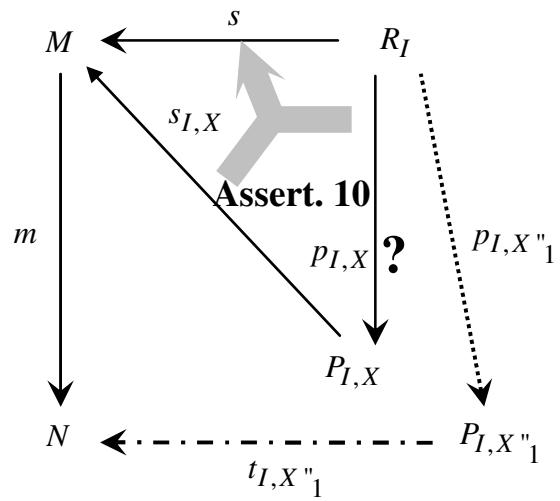
————— $\in \text{Fl}(M')$
 $\notin \text{Fl}(M')$
 - - - $\in \text{Fl}(M)$

Figure 23



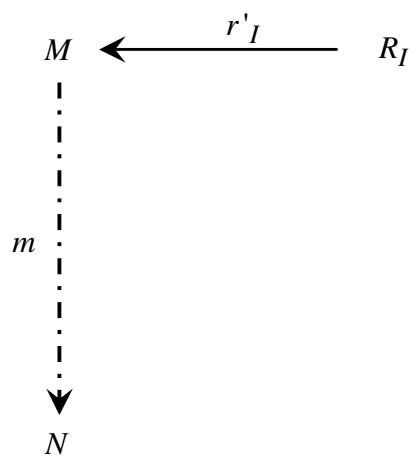
—————→ $\in \text{Fl}(M')$
→ $\notin \text{Fl}(M')$
 - - - → $\in \text{Fl}(M)$

Figure 24



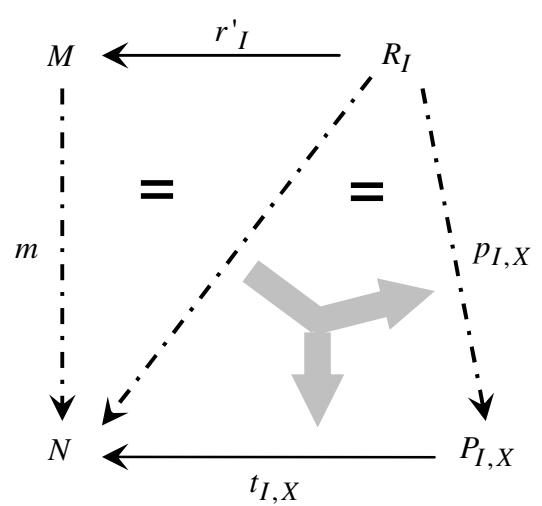
- $\in \text{Fl}(M')$
- $\notin \text{Fl}(M')$
- - → $\in \text{Fl}(M)$

Figure 25



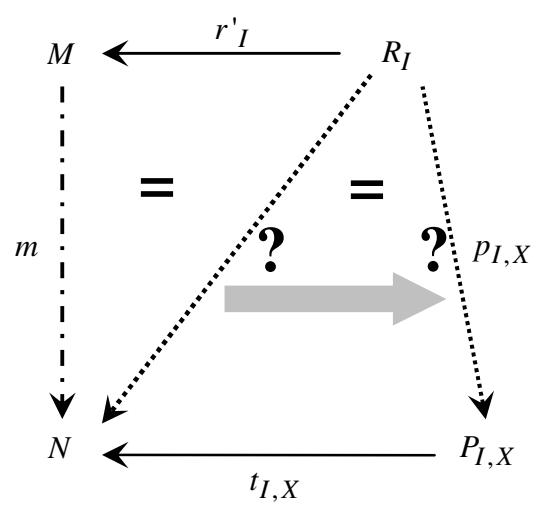
$\longrightarrow \in \text{Fl}(M')$
 $\dashrightarrow \in \text{Fl}(M)$

Figure 26



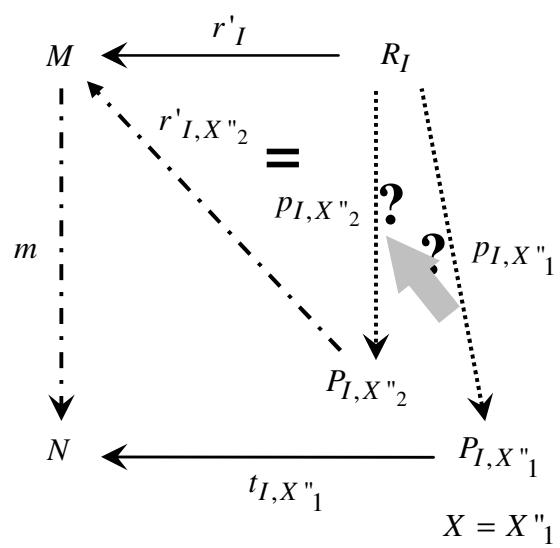
$\longrightarrow \in \text{Fl}(M')$
 $\dashrightarrow \in \text{Fl}(M)$

Figure 27



—————→ $\in \text{Fl}(M')$
→ $\notin \text{Fl}(M')$
 - - -→ $\in \text{Fl}(M)$

Figure 28



$\longrightarrow \in \text{Fl}(M')$
 $\dots \not\in \text{Fl}(M')$
 $\dashrightarrow \in \text{Fl}(M)$

Figure 29

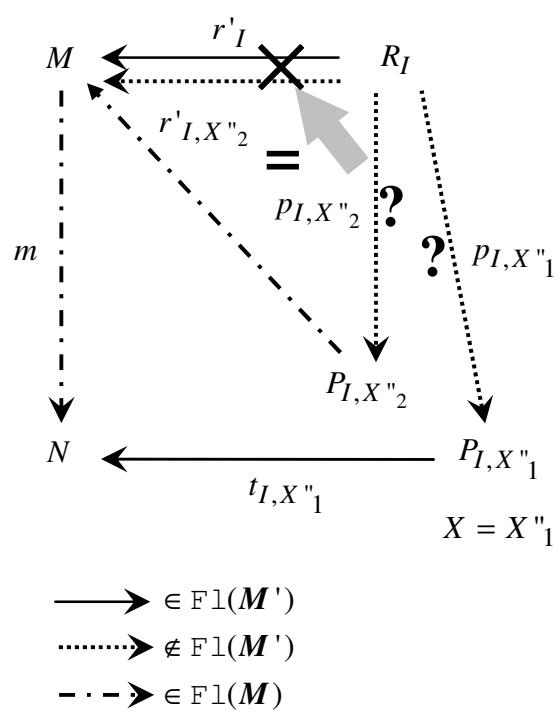


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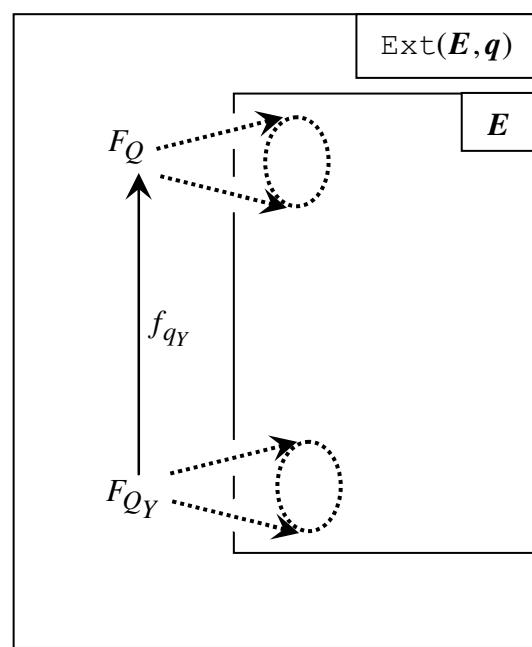


Figure 31

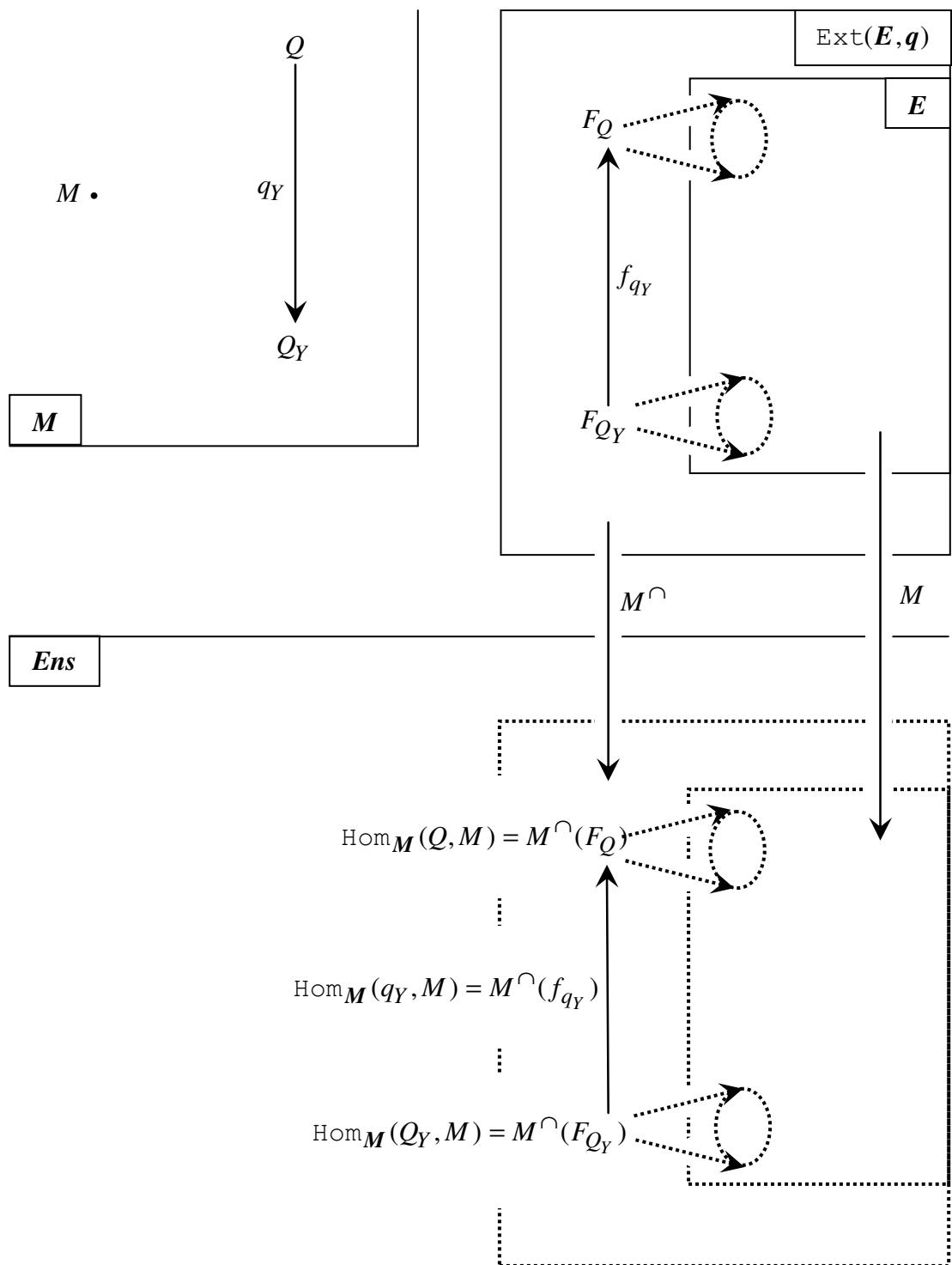


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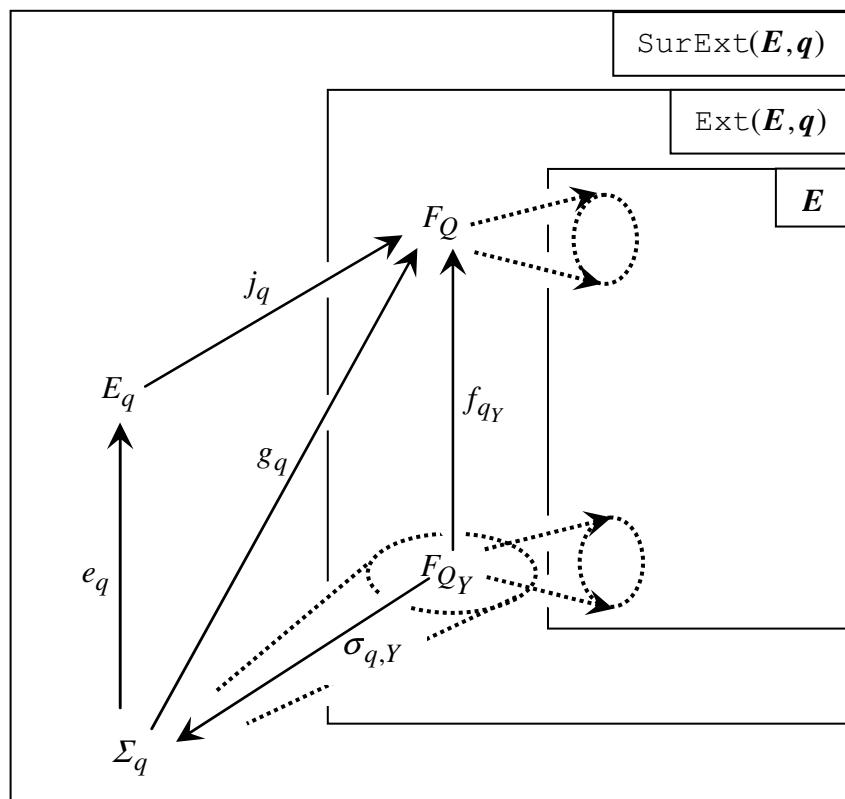


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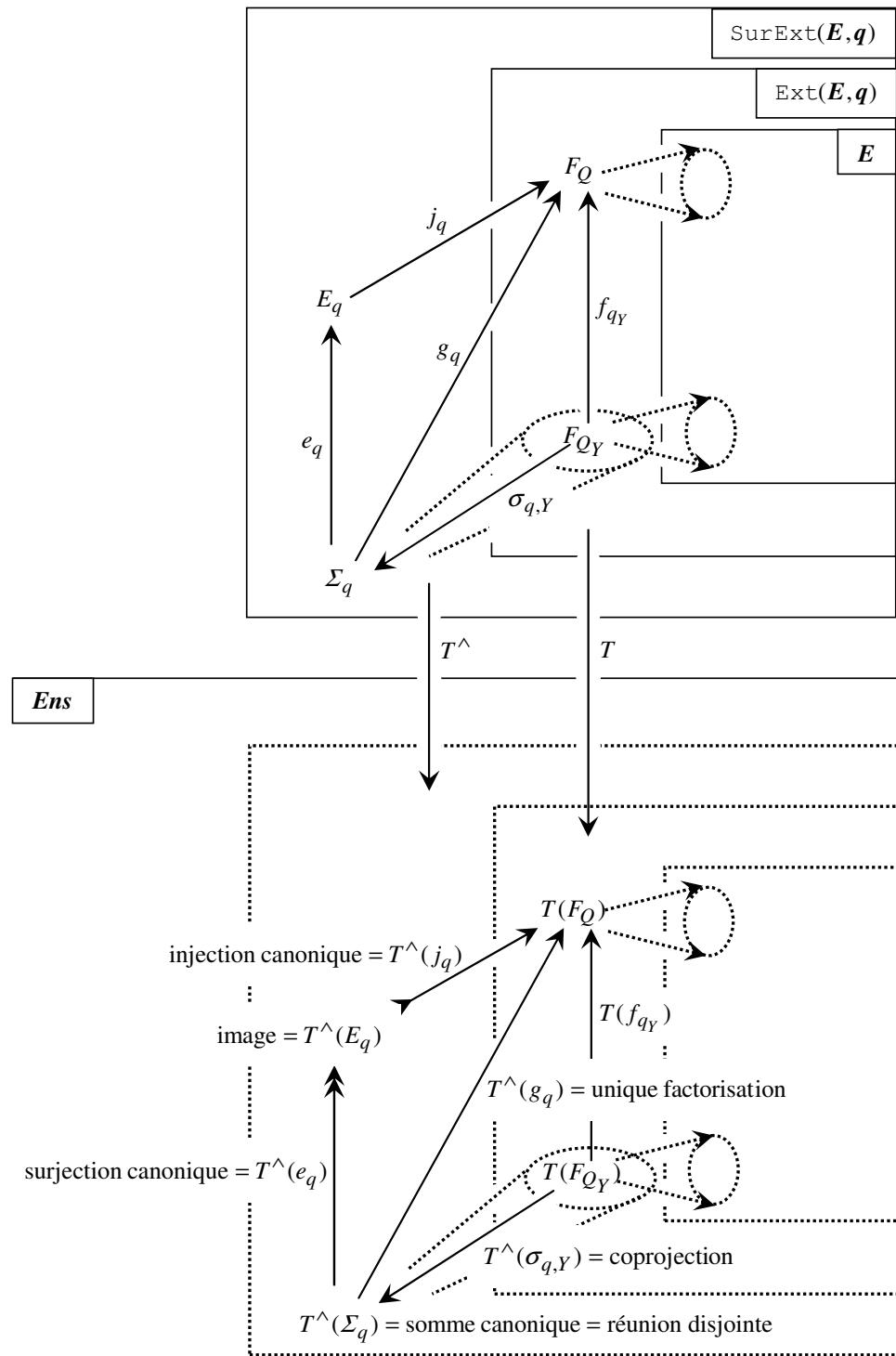
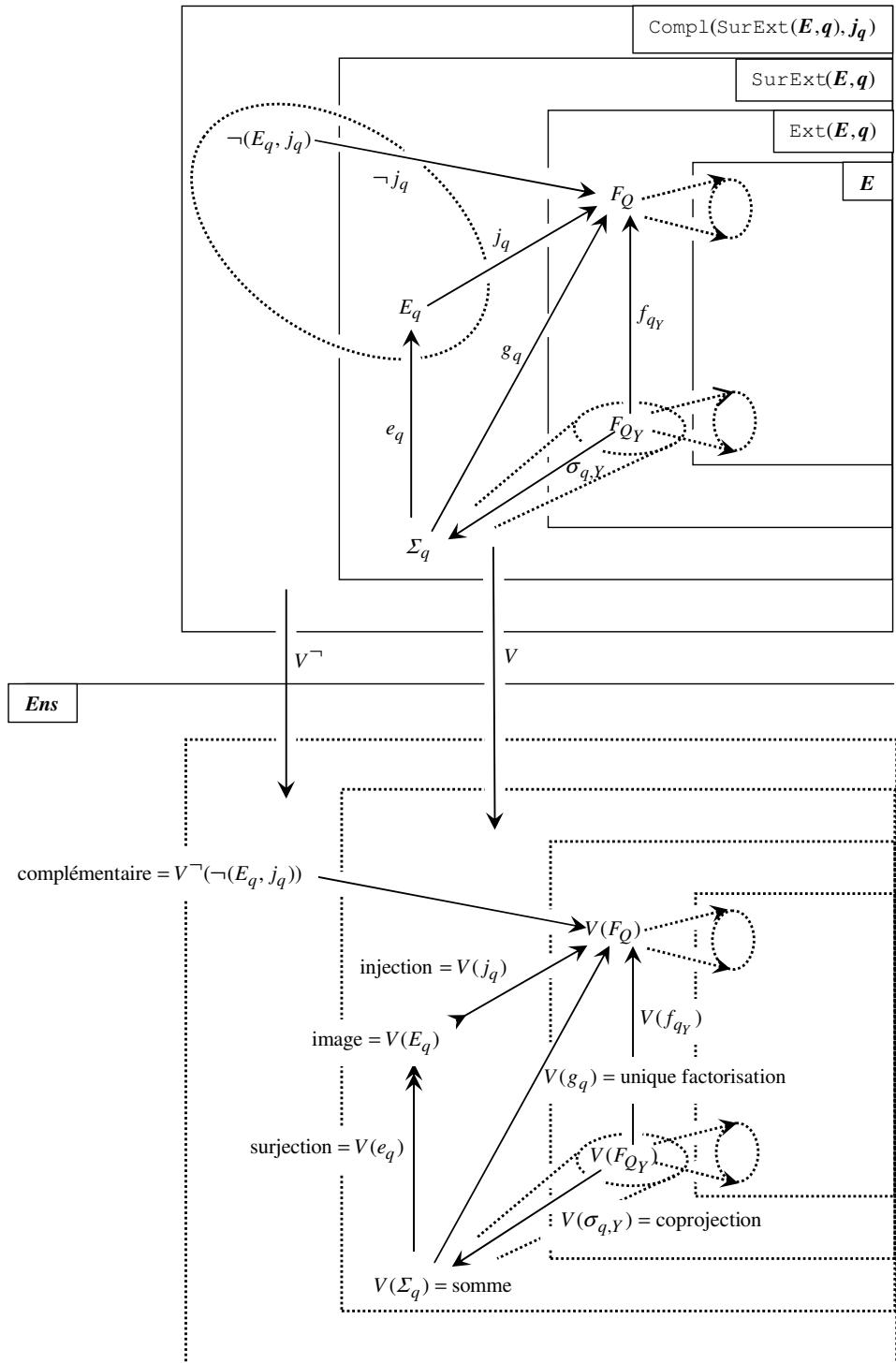


Figure 34



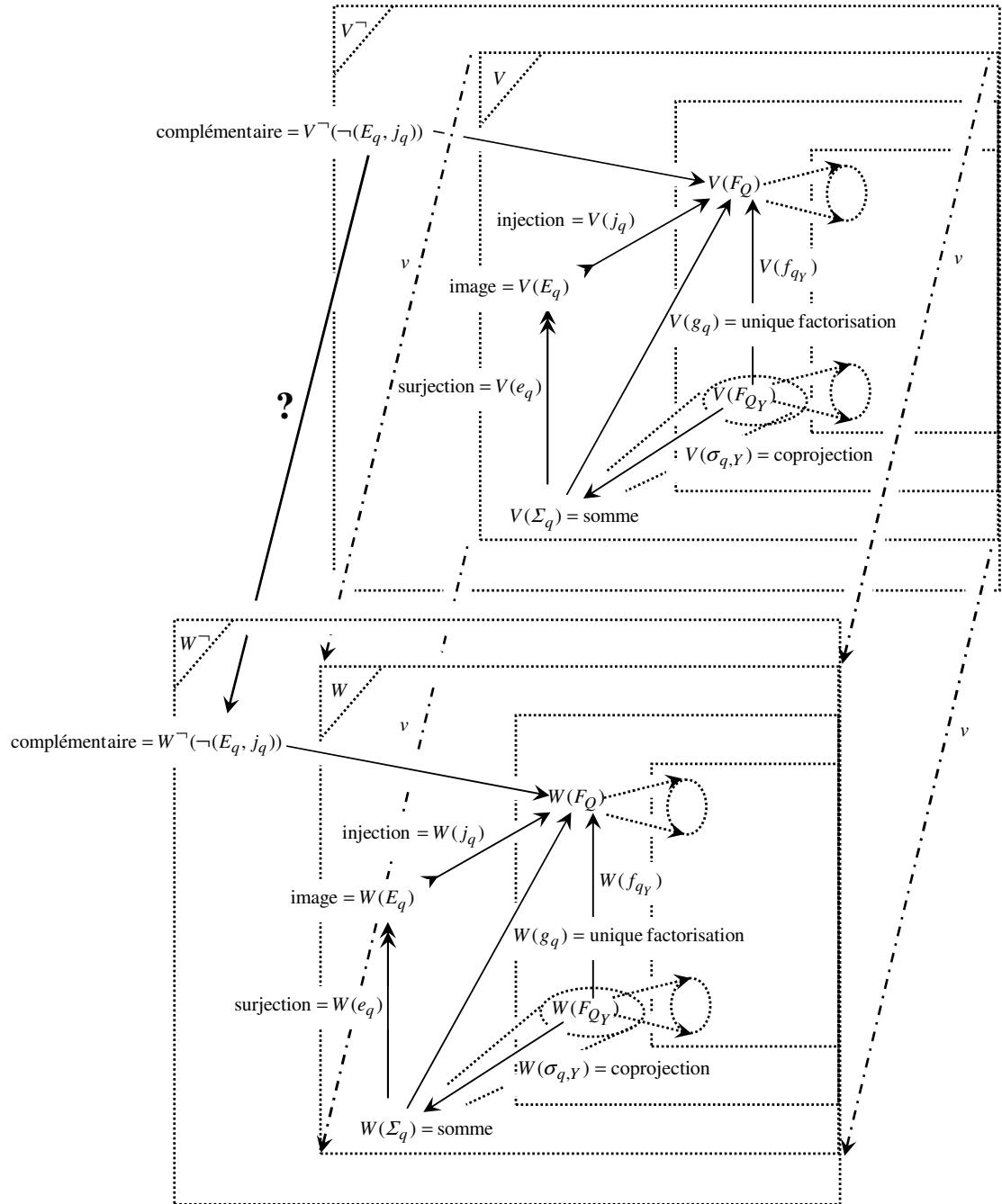


Figure 36